

**EXPERIMENTAL STUDY ON THE DIELECTRIC BREAKDOWN PERFORMANCE WITH
MAGNETIC FIELD AND CONCENTRATIONS OF MAGNETIC NANOFUIDS**

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SUMMARY: In order to investigate the dielectric breakdown strength of transformer oil-based nanofluid, we measured dielectric breakdown voltage with the magnetic field and the volume concentrations of the magnetic nano particles. It is confirmed that dielectric breakdown voltage is increased by the applied magnetic field and the added magnetic nano particles.